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résultat tout-à-fait différent de celui publié par M. Neison dans les *Monthly Notices* du Novembre 1877.

Dans la Note que M. Neison a publiée dans les *Monthly Notices* du Mars 1882, il reconnaît d'ailleurs que la valeur trouvée par lui pour le coefficient de l'inégalité en question était beaucoup trop fort et que sa vraie valeur *doit être seulement d'une petite fraction de seconde,* au lieu de plusieurs secondes :—

Voici du reste textuellement le passage en question de la Note ci-dessus citée :

"... the value found for the coefficient of this new term of long period was far too large. This fact I mentioned in my paper on Hansen's Terms of Long Period (*Monthly Notices*, March 1878, p. 269).

"Since then I have more accurately computed the value of this part of this term, and find its true value to be only a small fraction of a second, instead of several seconds."

J'ai cru nécessaire de rappeler ce passage de la Note de M. Neison, car je crois qu'à la suite d'une telle affirmation il n'y aurait plus lieu de se demander d'où provient l'énorme différence entre mon résultat et celui publié par M. Neison.

Dans une Note publiée dans le vol. 43 des *Monthly Notices*, p. 216, après constatation que mon résultat s'éléve à peine à 0″·00034, il y a en effet ce passage : "Il est difficile de voir d'où provient l'énorme différence entre ce résultat [le mien] et celui de M. Neison." Cette différence, d'après la déclaration même de M. Neison, tient, comme on le voit, à une erreur commise par lui dans les calculs.

Campulungu, Roumanie :
Le 9 *Août,* 1884.

The Proper Motions of the 460 *Stars given in the R.A.S. Memoirs*, vol. xxxiii., *when the Places of Auwers's Re-reduction of Bradley's Observations are adopted instead of Bessel's, with Notes on the Proper Motion of μ Piscium.* By E. J. Stone, M.A., F.R.S.

In the formation of my Cape Catalogue of 12,441, 1880, I adopted the usually accepted proper motions of the Bradley stars without any special examination.

For *μ Piscium* the values adopted from Main, *R.A.S. Memoirs*, vol. xix. p. 163, are R.A. + 0s·019 and N.P.D. + 0″·18.

Recently I have thought it desirable to re-examine some of these adopted values by comparisons between the Southern Catalogues. By comparing the Cape Catalogue, 1840, with that for 1880, I find for *μ Piscium* the proper motions

R.A. + 0s·021, N.P.D. − 0″·01.

The proper motion in R.A. agrees closely with the adopted value, but that in N.P.D. is utterly discordant.

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A comparison between recent Northern observations and the Cape observations confirms the smallness of the proper motion in N.P.D. It appeared, therefore, that there must be something wrong in the declination given in Bessel's *Fundamenta.* A comparison between Auwers's re-reduction of Bradley's observations and the Cape Catalogue, 1880, gives

R.A. $+0^{s}\cdot019$ and N.P.D. $+0''\cdot02$.

The declinations for 1755 given by Bessel and Auwers differ $13''\cdot17$.

It would appear, therefore, that the usually adopted value of the proper motion in R.A. $+0^{s}\cdot019$ is sensibly correct; whilst the proper motion in N.P.D., instead of being equal to $+0''\cdot18$, is very small indeed.

I have also examined the proper motions of σ *Ceti,* Bradley 356. In this case the proper motions given by the Cape Catalogues, 1840 and 1880, are

R.A. $-0^{s}\cdot014$, N.P.D. $+0''\cdot11$.

A comparison between Auwers's Bradley and the Cape, 1880, however, only gives

R.A. $-0^{s}\cdot007$, N.P.D. $+0''\cdot11$.

The difference $0^{s}\cdot007$ in R.A. is, I believe, larger than can be due to errors in the places of the 1840 and 1880 Catalogues. The proper motion in R.A. is more probably $-0^{s}\cdot012$ than $-0^{s}\cdot007$.

In the case of τ^5 *Eridani,* Bradley 495, a comparison between the Cape Catalogues 1840 and 1880 gives the proper motions

R.A. $+0^{s}\cdot004$, N.P.D. $+0''\cdot03$.

The values usually adopted have been

R.A. $-0^{s}\cdot003$, N.P.D. $+0''\cdot03$.

The discordance in sign in the proper motion in R.A. disappears if we adopt Auwers's re-reduction, we thus find that the Cape, 1880, and Bradley then give

R.A. $+0^{s}\cdot002$, N.P.D. $+0''\cdot03$.

As a general rule, however, the agreement between the determinations of the proper motions from the Greenwich observations and Bessel's Bradley, and those from the Cape observations, is exceedingly close.

I have added the proper motions of the 460 stars which I deduced some years ago from a comparison between the Greenwich Catalogue, 1860, and Bessel's *Fundamenta,* where Auwers's places are used instead of Bessel's for Bradley's results.

Peters's constants have been adopted as before.

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
3220	22 Andromedæ	+0·002	+0·01
3222	6 Ceti	−0·007	+0·26
6	Bradley 6	—	+0·03
36	11 Ceti	+0·012	+0·05
40	14 Cassiopeiæ λ	+0·003	+0·02
46	16 Cassiopeiæ	−0·002	+0·01
67	20 Cassiopeiæ π	−0·002	+0·02
71	17 Ceti φ′	−0·002	+0·11
72	23 Cassiopeiæ	—	+0·03
80	60 Piscium	0·000	0·00
83	25 Cassiopeiæ ν	+0·003	0·00
104	38 Andromedæ η	−0·002	+0·04
92	2 Ursæ Minoris	+0·068	+0·01
129	41 Andromedæ	+0·014	+0·07
150	84 Piscium χ	0·000	−0·01
177	46 Andromedæ ξ	+0·003	−0·01
185	93 Piscium ρ	−0·005	−0·03
189	94 Piscium	+0·002	+0·03
211	101 Piscium	−0·001	0·00
217	Bradley 217	+0·008	—
223	105 Piscium	+0·004	0·00
229	107 Piscium	−0·021	+0·66
231	109 Piscium	−0·005	+0·06
262	8 Arietis ι	+0·001	+0·01
271	112 Piscium	+0·014	+0·25
273	59 Ceti υ	+0·007	+0·02
296	15 Arietis	+0·006	+0·03
299	6 Persei	+0·036	+0·20
317	8 Trianguli δ	+0·091	+0·23
329	68 Ceti ο	−0·002	+0·22
348	Bradley 348	−0·004	−0·01
363	79 Ceti	−0·012	+0·43
364	31 Arietis	+0·018	+0·07
375	83 Ceti ε	+0·006	+0·25
366	Bradley 366	+0·001	+0·04
381	Bradley 381	−0·001	+0·03
390	1 Eridani τ^1	+0·022	−0·05
393	40 Arietis	+0·003	+0·01

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
394	16 Persei	+0·017	+0·06
404	2 Eridani τ^2	−0·006	+0·02
423	5 Eridani	0·000	0·00
429	25 Persei ρ	+0·011	+0·10
435	10 Eridani ρ^3	+0·004	−0·01
431	Bradley 431	—	+0·07
448	Bradley 448	—	+0·02
461	95 Ceti	+0·016	+0·06
468	97 Ceti κ^2	+0·002	+0·03
478	34 Persei	+0·001	+0·07
471	Bradley 471	—	+0·06
487	17 Eridani	0·000	0·00
489	6 Tauri *t*	+0·002	+0·04
507	14 Tauri	+0·008	+0·04
518	25 Eridani	+0·002	−0·02
529	30 Tauri *e*	+0·001	+0·02
530	27 Eridani τ^6	−0·013	+0·54
536	Bradley 536	—	+0·02
540	32 Eridani	+0·003	0·00
541	33 Tauri	+0·005	—
553	38 Tauri ν	0·000	+0·01
558	41 Tauri	+0·002	+0·05
562	43 Tauri ω^1	+0·007	+0·03
570	46 Tauri	−0·002	−0·02
576	51 Tauri	+0·007	+0·03
582	52 Tauri ϕ	−0·001	+0·05
588	59 Tauri χ^1	+0·001	+0·02
599	65 Tauri κ^1	+0·005	+0·06
606	72 Tauri υ^2	0·000	0·00
620	81 Tauri	+0·008	—
618	57 Persei *m*	+0·001	+0·01
624	45 Eridani	0·000	+0·01
631	46 Eridani	0·000	+0·01
636	50 Eridani υ^6	−0·010	+0·28
650	Bradley 650	+0·007	+0·12
657	57 Eridani μ	0·000	0·00
675	5 Orionis	+0·001	+0·01
680	8 Orionis	0·000	0·00

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
677	3 Aurigæ ι	0·000	0·00
686	Bradley 686	0·000	—
695	10 Orionis π^6	0·000	−0·01
697	63 Eridani	+0·001	+0·12
701	65 Eridani ψ	−0·002	−0·02
698	102 Tauri ι	+0·004	+0·05
713	2 Leporis ε	+0·002	+0·08
706	103 Tauri	0·000	—
712	66 Eridani	0·000	+0·02
727	3 Leporis ι	0·000	0·00
725	17 Orionis ρ	0·000	0·00
765	28 Orionis η	−0·001	−0·01
758	24 Aurigæ φ	−0·001	+0·04
767	115 Tauri	0·000	0·00
790	121 Tauri	+0·001	+0·02
792	37 Orionis ϕ^1	−0·001	+0·01
843	14 Leporis ζ	−0·001	−0·01
858	15 Leporis δ	+0·017	+0·66
869	59 Orionis	+0·002	+0·01
878	64 Orionis χ^3	—	+0·02
885	66 Orionis	−0·002	+0·01
892	18 Leporis θ	−0·001	−0·02
902	2 Lyncis	+0·001	−0·03
916	73 Orionis k^1	0·000	0·00
920	5 Monocerotis	−0·001	—
928	7 Monocerotis	0·000	−0·01
945	9 Monocerotis	−0·001	−0·01
953	19 Geminorum	−0·001	0·00
957	12 Monocerotis	−0·004	−0·01
978	7 Canis Majoris ν^2	+0·004	+0·05
970	54 Aurigæ	−0·001	+0·02
981	15 Monocerotis	+0·001	0·00
986	28 Geminorum	−0·001	+0·01
984	57 Aurigæ	−0·003	+0·01
990	32 Geminorum	−0·001	−0·03
995	18 Monocerotis	—	+0·01
997	33 Geminorum	−0·002	−0·09
1004	36 Geminorum *d*	0·000	+0·04

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
1007	37 Geminorum	−0·004	−0·02
1009	38 Geminorum *e*	+0·004	+0·07
1030	45 Geminorum	−0·002	+0·09
1041	20 Monocerotis	+0·006	−0·22
1038	48 Geminorum	−0·003	+0·03
1047	22 Monocerotis	−0·001	−0·03
1044	Piazzi vii.-11	—	−0·03
1050	53 Geminorum	−0·002	0·00
1055	24 Monocerotis	−0·001	−0·01
1059	27 Canis Majoris	−0·001	−0·05
1080	64 Geminorum b^1	−0·003	+0·05
1082	65 Geminorum b^2	−0·001	+0·01
1110	26 Monocerotis γ	−0·007	+0·02
1134	9 Puppis	−0·006	+0·34
1139	14 Canis Minoris	−0·012	−0·09
1140	2 Cancri ω^1	−0·001	−0·02
1153	Bradley 1153	−0·002	−0·13
1161	10 Cancri μ^2	+0·002	+0·05
1174	16 Puppis	0·000	−0·01
1179	20 Puppis	−0·001	+0·01
1181	18 Cancri χ	−0·001	+0·37
1197	Piazzi viii.-69	−0·004	−0·02
1195	2 Ursæ Majoris A	−0·009	+0·07
1213	36 Cancri c^1	−0·004	+0·01
1211	Piazzi viii.-110	−0·002	+0·01
1221	5 Hydræ σ	−0·004	0·00
1232	45 Cancri A^1	−0·001	−0·02
1235	7 Hydræ η	−0·002	−0·01
1239	48 Cancri ι	−0·001	+0·03
1248	13 Hydræ ρ	−0·002	+0·02
1254	55 Cancri ρ^2	−0·038	+0·23
1284	18 Hydræ ω	−0·001	−0·01
1280	15 Ursæ Majoris *f*	−0·013	+ ·
1279	14 Ursæ Majoris τ	+0·015	+0·07
1286	75 Cancri	−0·009	+0·37
1298	81 Cancri π^1	−0·038	−0·27
1299	Bradley 1299	0·000	+0·02
1300	Bradley 1300	−0·012	−0·05

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
1303	22 Hydræ θ	+0·009	+0·30
1304	82 Cancri π^2	−0·002	−0·03
1307	23 Hydræ	−0·001	−0·02
1318	Bradley 1318	−0·010	−0·01
1320	1 Leonis κ	−0·002	+0·03
1327	29 Hydræ	−0·003	0·00
1328	2 Leonis ω	+0·003	−0·02
1337	9 Leonis Minoris	+0·002	+0·05
1340	10 Leonis Minoris	+0·001	0·00
1343	11 Leonis Minoris	−0·059	+0·25
1344	33 Hydræ	0·000	+0·03
1346	42 Lyncis	−0·001	−0·02
1349	10 Leonis	−0·005	−0·02
1356	35 Hydræ ι	+0·002	+0·06
1362	38 Hydræ κ	−0·001	−0·02
1372	19 Leonis	−0·006	−0·04
1373	Bradley 1373	−0·002	—
1380	4 Sextantis	−0·009	+0·02
1388	39 Hydræ υ^1	−0·001	+0·01
1386	7 Sextantis	−0·013	−0·14
1394	26 Leonis	−0·004	0·00
1397	20 Leonis Minoris	−0·040	+0·43
1407	15 Sextantis	—	−0·03
1409	16 Sextantis	−0·001	−0·01
1412	41 Hydræ λ	−0·014	+0·06
1425	36 Leonis ζ	+0·001	−0·02
1435	23 Sextantis	−0·001	−0·02
1429	Bradley 1429	—	+0·01
1444	29 Leonis Minoris	−0·009	+0·06
1445	30 Leonis Minoris	−0·006	+0·05
1439	Bradley 1439	—	−0·01
1459	30 Sextantis	−0·002	+0·01
1463	46 Leonis *i*	−0·003	−0·03
1465	34 Leonis Minoris	−0·005	−0·01
1458	Bradley 1458	+0·012	0·00
1475	37 Leonis Minoris	0·000	−0·04
1479	Hydræ ϕ^3	−0·009	−0·05
1490	42 Leonis Minoris	−0·003	+0·01

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
1509	46 Leonis Minoris	+0·006	+0·25
1514	Bradley 1514	—	+0·03
1515	54 Leonis (1st star)	−0·006	−0·02
1517	55 Leonis	+0·006	−0·02
1522	47 Ursæ Majoris	−0·027	—
1530	61 Leonis p^1	+0·001	0·00
1529	60 Leonis *b*	−0·002	−0·05
1533	62 Leonis p^2	−0·006	−0·02
1536	9 Crateris	−0·016	+0·02
1538	Bradley 1538	+0·001	+0·02
1544	10 Crateris	−0·006	−0·03
1549	72 Leonis	−0·003	−0·01
1563	14 Crateris ε	−0·004	−0·05
1565	81 Leonis	—	0·00
1573	85 Leonis	−0·003	+0·03
1574	58 Ursæ Majoris	−0·005	−0·08
1577	88 Leonis	−0·024	+0·18
1582	89 Leonis	−0·012	+0·08
1581	2 Draconis	+0·014	+0·11
1590	1 Virginis ω	−0·001	+0·01
1593	61 Ursæ Majoris	−0·001	+0·39
1595	3 Draconis	−0·005	−0·03
1620	1 Comæ	−0·004	+0·01
1624	1 Corvi α	+0·005	+0·04
1630	4 Comæ	−0·003	+0·03
1639	6 Comæ	−0·006	0·00
1641	7 Comæ	−0·004	−0·01
1645	8 Comæ	−0·003	0·00
1650	Bradley 1650	—	−0·01
1654	11 Comæ	−0·009	−0·09
1658	12 Comæ	−0·001	−0·01
1661	13 Comæ	−0·001	+0·01
1665	14 Comæ	−0·002	+0·01
1666	15 Comæ	−0·007	+0·08
1667	16 Comæ	−0·001	0·00
1680	4 Draconis	—	+0·07
1681	8 Corvi η	−0·032	+0·05
1690	25 Virginis *f*	−0·003	+0·02

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
1694	26 Virginis χ	−0·006	+0·02
1700	28 Virginis	0·000	+0·03
1701	30 Virginis ρ	+0·004	+0·08
1703	76 Ursæ Majoris	—	+0·03
1706	33 Virginis	+0·019	+0·45
1710	36 Virginis	+0·002	+0·01
1712	11 Canum Venaticorum	—	0·00
1727	8 Draconis	—	+0·05
1728	36 Comæ	−0·003	−0·05
1729	44 Virginis *k*	−0·003	−0·02
1732	46 Virginis	−0·003	−0·07
1733	37 Comæ	−0·002	0·00
1738	48 Virginis	−0·004	0·00
1740	39 Comæ	−0·006	+0·05
1744	45 Hydræ ψ	−0·004	+0·04
1746	50 Virginis	0·000	+0·01
1757	56 Virginis	−0·003	+0·04
1760	59 Virginis *e*	−0·023	−0·20
1761	58 Virginis	−0·007	−0·03
1762	60 Virginis σ	−0·003	−0·03
1767	21 Canum Venaticorum	−0·004	0·00
1766	62 Virginis	−0·010	−0·01
1772	65 Virginis	−0·004	−0·01
1773	66 Virginis	+0·010	+0·02
1775	68 Virginis *i*	−0·011	+0·02
1780	70 Virginis	−0·020	+0·57
1782	72 Virginis l^1	+0·002	−0·04
1783	73 Virginis	−0·008	+0·01
1786	76 Virginis *h*	−0·005	+0·02
1790	80 Virginis	0·000	−0·10
1793	81 Virginis	−0·002	—
1801	83 Virginis	+0·001	0·00
1804	85 Virginis	−0·006	+0·03
1806	87 Virginis	+0·001	+0·03
1826	9 Boötis	+0·001	+0·05
1858	103 Virginis	−0·006	0·00
1862	52 Hydræ	−0·003	+0·05
1865	105 Virginis φ	−0·009	−0·01

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
1868	24 Boötis *g*	−0·032	+0·07
1877	31 Boötis	+0·001	+0·02
1883	34 Boötis	−0·001	0·00
1888	35 Boötis	−0·005	+0·05
1895	Bradley 1895	−0·007	—
1896	10 Libræ	−0·005	−0·01
1906	6 Ursæ Minoris	—	−0·02
1899	12 Libræ	−0·001	+0·04
1914	40 Boötis	—	−0·05
1915	110 Virginis	−0·004	−0·02
1920	22 Libræ ν^2	−0·008	+0·01
1924	45 Boötis	+0·012	+0·19
1928	25 Libræ	−0·005	+0·03
1935	48 Boötis χ	−0·026	−0·03
1965	52 Boötis ν^1	+0·001	+0·01
1967	53 Boötis ν^2	−0·003	+0·01
1968	4 Coronæ θ	−0·005	—
1986	21 Serpentis ι	−0·006	+0·03
1991	8 Coronæ γ	−0·008	+0·04
1994	9 Coronæ π	—	0·00
2010	10 Coronæ δ	−0·009	+0·07
2013	38 Serpentis ρ	−0·004	−0·02
2018	11 Coronæ κ	−0·002	+0·36
2021	1 Herculis χ	+0·037	−0·62
2037	15 Coronæ ρ	—	+0·78
2038	44 Serpentis π	0·000	−0·04
2058	16 Coronæ τ	−0·006	−0·33
2061	11 Herculis ϕ	—	−0·03
2081	50 Serpentis σ	+0·010	−0·04
2087	19 Coronæ ξ	—	−0·12
2083	5 Ophiuchi ρ	−0·003	+0·01
2089	23 Herculis	—	+0·02
2090	24 Herculis ω	—	+0·03
2093	25 Herculis	0·000	+0·01
2104	14 Draconis η	—	−0·04
2105	29 Herculis *h*	−0·014	+0·07
2108	12 Ophiuchi	+0·026	+0·30
2116	36 Herculis m^1	−0·001	−0·01

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
2117	37 Herculis m^2	−0·002	+0·01
2125	39 Herculis	−0·001	+0·04
2130	41 Herculis	−0·017	—
2131	43 Herculis *i*	0·000	−0·04
2139	47 Herculis *k*	+0·002	−0·01
2145	50 Herculis	−0·004	−0·01
2153	Bradley 2153	−0·002	—
2155	26 Ophiuchi	−0·003	+0·08
2167	60 Herculis	+0·004	−0·01
2178	37 Ophiuchi	0·000	+0·03
2184	41 Ophiuchi	−0·004	+0·06
2195	69 Herculis *e*	−0·002	−0·08
2188	Bradley 2188	−0·005	+0·07
2192	43 Ophiuchi	0·000	+0·03
2220	57 Ophiuchi μ	−0·002	+0·01
2225	56 Serpentis o	−0·005	+0·02
2240	29 Draconis	—	−0·05
2230	3 Sagittarii	−0·002	+0·02
2239	87 Herculis	0·000	+0·03
2254	57 Serpentis ζ	+0·009	+0·04
2265	69 Ophiuchi τ	+0·002	+0·01
2269	96 Herculis	−0·001	+0·01
2271	70 Ophiuchi	+0·016	+1·10
2337	44 Draconis χ	+0·117	+0·39
2324	24 Sagittarii	−0·005	+0·01
2326	25 Sagittarii	+0·009	−0·03
2342	2 Aquilæ	0·000	0·00
2357	6 Lyræ ζ^1	+0·003	−0·02
2358	Lyræ ζ^2	+0·003	−0·02
2380	11 Lyræ δ^1	−0·001	·00
2383	12 Lyræ δ^2	−0·002	−0·01
2404	50 Draconis	−0·016	−0·07
2409	Bradley 2409	—	−0·02
2427	20 Lyræ η	0·000	−0·01
2443	55 Draconis	—	−0·01
2428	1 Vulpeculæ	0·000	0·00
2446	49 Sagittarii χ^3	−0·003	0·00
2471	58 Draconis π	—	−0·03

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	"
2477	37 Aquilæ κ	0·000	0·00
2484	41 Aquilæ ι	0·000	0·00
2498	13 Cygni θ	−0·002	−0·24
2499	6 Sagittæ β	0·000	+0·04
2503	14 Cygni	+0·002	−0·05
2514	15 Cygni	+0·006	−0·04
2517	17 Cygni χ	0·000	+0·44
2518	52 Aquilæ π	0·000	0·00
2523	8 Sagittæ ζ	+0·003	−0·04
2537	13 Vulpeculæ	+0·001	−0·04
2548	21 Cygni η	−0·003	+0·03
2553	14 Vulpeculæ	−0·007	−0·02
2559	Bradley 2559	0·000	0·00
2568	15 Sagittæ	−0·029	+0·37
2591	4 Capricorni	+0·001	+0·03
2602	23 Vulpeculæ	−0·004	−0·01
2606	24 Vulpeculæ	+0·001	+0·03
2612	32 Cygni	+0·001	0·00
2625	39 Cygni	+0·004	−0·01
2633	69 Aquilæ	+0·003	−0·01
2637	41 Cygni	+0·001	0·00
2645	45 Cygni ω^2	+0·001	−0·01
2642	2 Delphini ϵ	0·000	+0·03
2647	46 Cygni ω^3	+0·002	+0·05
2651	2 Cephei θ	+0·005	+0·05
2657	15 Capricorni υ	−0·003	−0·01
2662	8 Delphini θ	−0·001	+0·01
2682	73 Draconis	+0·001	+0·02
2704	75 Draconis	+0·009	−0·01
2692	54 Cygni λ	−0·002	−0·01
2693	15 Delphini	+0·002	−0·10
2700	19 Capricorni	−0·005	+0·01
2720	Bradley 2720	—	−0·03
2713	20 Capricorni	+0·001	+0·02
2727	Bradley 2727	—	+0·03
2718	21 Capricorni	−0·003	−0·01
2748	Bradley 2748	—	−0·05
2737	24 Capricorni A	−0·003	+0·02

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
2747	13 Aquarii ν	+0·005	0·00
2751	5 Equulei γ	+0·004	+0·17
2758	28 Capricorni φ	+0·009	0·00
2761	7 Equulei δ	+0·011	+0·29
2769	67 Cygni σ	0·000	+0·02
2773	Bradley 2773	−0·002	—
2776	17 Aquarii	−0·004	+0·02
2788	6 Cephei	0·000	+0·01
2782	19 Aquarii	−0·001	+0·17
2805	7 Cephei	−0·002	+0·03
2813	4 Pegasi	+0·007	−0·04
2820	42 Capricorni	−0·013	+0·30
2819	41 Capricorni	+0·007	+0·11
2823	44 Capricorni	−0·002	−0·03
2834	46 Capricorni c^1	−0·003	−0·02
2837	9 Pegasi	+0·002	0·00
2842	Piscis Australis θ	−0·006	0·00
2859	14 Pegasi	+0·001	+0·03
2864	16 Pegasi	0·000	0·00
2873	12 Piscis Australis η	0·000	0·00
2883	31 Aquarii *o*	0·000	0·00
2891	22 Pegasi ν	+0·006	−0·11
2906	18 Cephei	+0·001	—
2907	17 Cephei ξ	—	−0·07
2908	37 Aquarii e^1	+0·003	−0·05
2909	38 Aquarii e^2	+0·002	−0·01
2922	16 Piscis Australis λ	+0·001	+0·03
2933	1 Lacertæ	+0·001	0·00
2936	45 Aquarii	+0·004	0·00
2941	30 Pegasi	0·000	0·00
2940	47 Aquarii	−0·003	+0·07
2944	31 Pegasi	0·000	−0·01
2949	50 Aquarii	+0·002	−0·02
2958	4 Lacertæ	−0·002	+0·02
2959	35 Pegasi	+0·004	+0·30
2969	26 Cephei	−0·003	+0·02
2970	5 Lacertæ	−0·002	+0·02
2967	58 Aquarii	+0·004	+0·02

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
2971	6 Lacertæ	−0·002	—
2980	28 Cephei	−0·009	+0·07
2976	59 Aquarii υ	+0·015	+0·16
2988	29 Cephei ρ	—	+0·03
2995	11 Lacertæ	+0·008	−0·01
2991	19 Piscis Australis	−0·002	—
3001	67 Aquarii	−0·003	−0·02
3008	46 Pegasi ξ	+0·014	+0·48
3010	47 Pegasi λ	+0·004	+0·01
3012	70 Aquarii	+0·003	−0·03
3023	15 Lacertæ	+0·010	−0·01
3028	Bradley 3028	—	−0·03
3021	74 Aquarii	+0·001	+0·01
3040	81 Aquarii	−0·002	+0·01
3042	82 Aquarii	−0·001	+0·03
3048	83 Aquarii h^1	+0·008	−0·02
3054	Bradley 3054	—	0·00
3056	55 Pegasi	−0·001	+0·01
3057	56 Pegasi	0·000	+0·03
3059	5 Piscium A	+0·008	−0·13
3062	88 Aquarii c^2	+0·002	−0·05
3065	89 Aquarii c^3	−0·004	+0·01
3105	98 Aquarii b^1	−0·012	+0·10
3113	99 Aquarii b^2	−0·005	+0·06
3125	Bradley 3125	—	+0·01
3122	70 Pegasi q	+0·002	−0·03
3130	101 Aquarii b^4	−0·004	−0·11
3147	Bradley 3147	−0·086	0·00
3145	102 Aquarii ω^1	+0·003	+0·04
3150	103 Aquarii A^1	−0·004	+0·08
3151	104 Aquarii A^2	−0·002	−0·02
3159	106 Aquarii i^1	+0·001	+0·02
3160	78 Pegasi	+0·006	+0·03
3162	19 Piscium	−0·004	+0·02
3166	Bradley 3166	—	+0·01
3167	21 Piscium	−0·001	+0·01
3174	22 Piscium	+0·001	+0·01
3183	26 Piscium	+0·001	+0·01

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No. in Bradley (1755).	Star's Name.	Proper Motion in R.A.	Proper Motion in N.P.D.
		s	″
3195	Bradley 3195	—	+0·02
3200	31 Piscium c^1	−0·001	+0·01
3201	32 Piscium c^2	−0·005	+0·03
3212	Bradley 3212	—	+0·18

ι Aurigæ. The R.A. of the Fundamenta is 1′ too large.
Bradley 1458. The places given in the Fundamenta are in error.

On the Periodic Time of α Centauri. By E. B. Powell, M.A.

For the last four or five years I have been led to believe that the period of *α Centauri* has been considerably underestimated by calculators of orbits for that binary, myself included; and I now beg to lay before the Society the grounds on which I have come to this conclusion. Dr. Elkin's orbit and Mr. Downing's modification of the same no doubt accord very closely with observations between 1834 and 1877, and I imagine only comparatively slight changes will be found requisite in regard to all the elements save the period. The comes has been watched pretty closely through a change of position angle of more than 330°, corresponding to a change of true anomaly of more than 250°. The question now is, how far the apparent or perspective orbit runs out in the south-preceding direction. In connection with this point I propose to refer to some early notices of the star.

I believe the earliest observation of *α Centauri* is one by Father Richaud, recorded in observations, mathematical and physical, sent by certain Jesuit Fathers to the Royal Academy of Sciences at Paris, and published in 1692. In this work occurs isolated Richaud's note, which is as follows:—

"Regardant à l'occasion de la comète plusieurs fois les pieds du *Centaure* avec une lunette d'environ douze pieds, je remarquai que le pied le plus oriental et le plus brillant étoit une double étoile aussi bien que le pied de la croisade; avec cette différence que dans la croisade, une étoile paroît avec la lunette notablement éloignée de l'autre; au lieu qu'au pied du *Centaure*, les deux étoiles paroissent même avec la lunette presque se toucher; quoique cependant on les distingue aisément."

Richaud observed the comet referred to at Pondicherry in December 1689; hence the epoch of his observation may be taken approximately as 1690. The components of *α Crucis* spoken of are, I imagine, not the two close stars, but those two seen as one and the third—a sixth magnitude star. The close stars are about 5″ apart, while the third is about 90″ distant from the close one. The near stars, if moving, are moving very slowly, though the recorded measures of distance in this century,